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(54) PRODUCTION OF ULTRA RAPID STRENGTH CALCIUM PHOSPHATE CEMENT

(57)Abstract:

PURPOSE: To prevent irritation to a living body, to provide excellent workability and to provide high strength in a short time by mixing prescribed repulverized powder into calcium phosphate cement powder and grinding and mixing, while the obtained powder is milled.

CONSTITUTION: The calcium phosphate cement consisting essentially of α type calcium tertiary phosphate and calcium quaternary phosphate, etc., is hardened in air or the like, and then it is pulverized to obtain the repulverized powder having 20-100 μ m particle size and 10-50m²/g specific surface area. Next, 0.3-10wt.% the repulverized powder is added to calcium phosphate cement powder and mixed with a shaker mixer or the like for 10-30min to obtain a mixture. Subsequently, the whole mixture is charged into a grinding and pulverizing machine and while it is milled, it is ground and mixed for 20-60min to obtain the ultra rapid strength calcium phosphate cement.

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